

## RA N Female to N Female Adapter

RA type N female to type N female adapter part number SM4520 from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N adapter has a female to female gender configuration. SM4520 type N female to type N female adapter operates to 6 GHz. The Fairview Microwave RF adapter provides excellent VSWR of 1.2:1 maximum. This right angle type N adapter allows for easier connections in tight spaces.

RF adapters can be used to enable connections between two connector types that would otherwise not mate. Certain RF adapter configurations can also be used to protect connectors on expensive equipment where the number of connect and disconnect cycles is high. An RF, microwave, or millimeter wave adapter is connected to the equipment and the commonly changed connection is made with the adapter which can be easily replaced when it wears out after high usage; such adapters are referred to as connector savers. Fairview Microwave also offers bulkhead, panel mount, hermetically sealed, reverse polarity, and isolated ground adapter varieties to serve all of your RF, microwave and millimeter wave needs.

### Electrical Specifications

| Description     | Min | Typ | Max   | Units |
|-----------------|-----|-----|-------|-------|
| Frequency Range | DC  |     | 6     | GHz   |
| VSWR            |     |     | 1.2:1 |       |

Electrical Specification Notes:  
 Values at 25°C, sea level.

### Mechanical Specifications

| Size   |                    |
|--------|--------------------|
| Length | 1.27 in [32.26 mm] |
| Height | 1.27 in [32.26 mm] |
| Weight | 0.10803 lbs [49 g] |

| Description             | Connector 1 | Connector 2 |
|-------------------------|-------------|-------------|
| Type                    | N Female    | N Female    |
| Polarity                | Standard    | Standard    |
| Interface Specification | MIL-STD-348 | MIL-STD-348 |

### Material Specifications

| Description                 | Connector 1      | Connector 2      |
|-----------------------------|------------------|------------------|
| Type                        | N Female         | N Female         |
| Contact Material            | Beryllium Copper | Beryllium Copper |
| Contact Plating             | Gold             | Gold             |
| Contact Plating Spec.       | MIL-G-45204      | MIL-G-45204      |
| Insulation Material         | PTFE             | PTFE             |
| Outer Contact Material      | Brass            | Brass            |
| Outer Contact Plating       | Silver           | Silver           |
| Outer Contact Plating Spec. | QQ-S-365         | QQ-S-365         |



### Configuration:

- N Female Connector 1
- N Female Connector 2
- 50 Ohm
- Right Angle Body Geometry

### Features:

- VSWR of 1.2:1 max up to 6 GHz
- Type N interface meets MIL-STD-348
- Contact plating according to MIL-G-45204
- Gold Plated Contact

### Applications:

- General Purpose Test

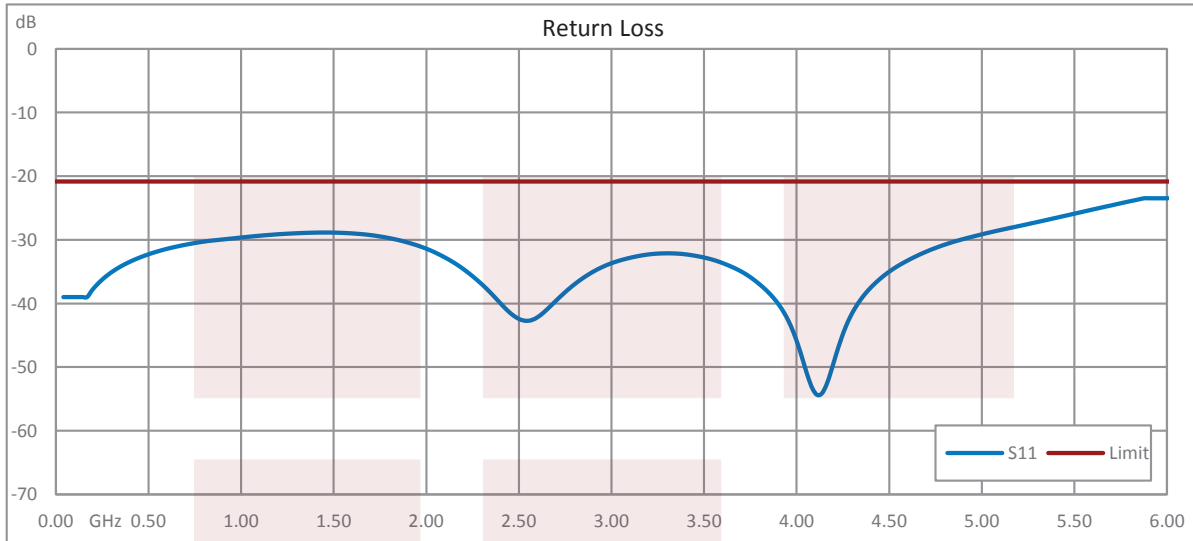
Fairview Microwave  
 1130 Junction Dr. #100  
 Allen, TX 75013  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

**Typical Performance Data**

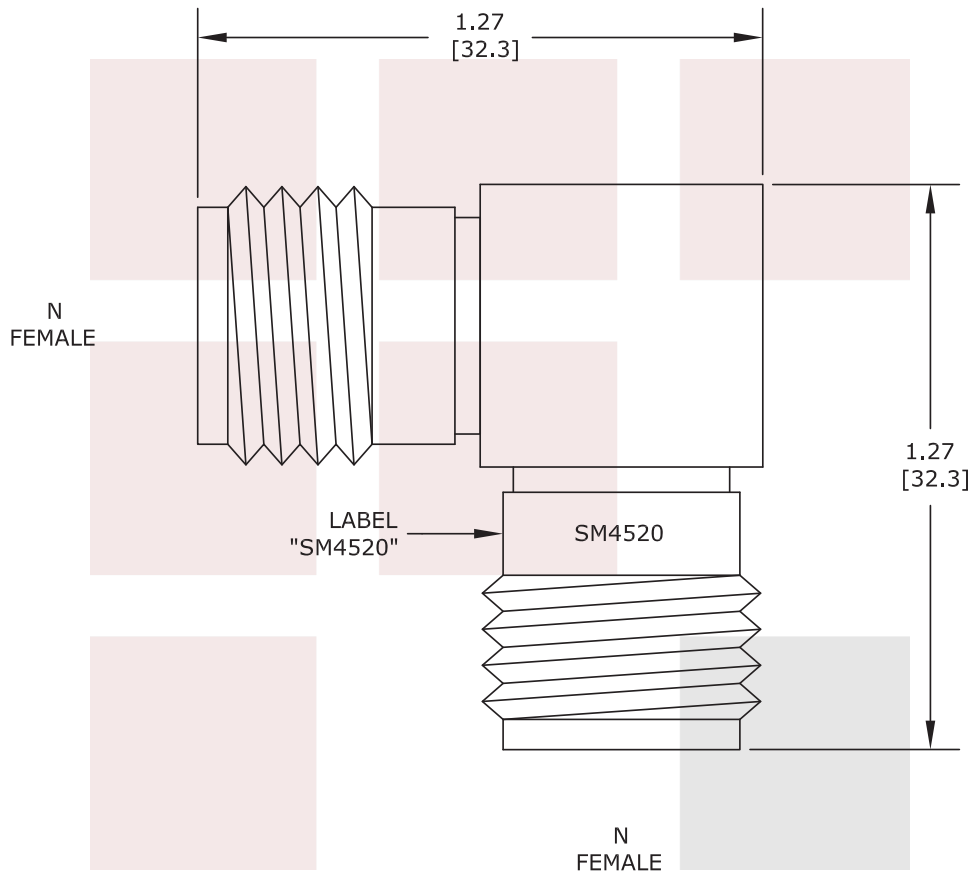


RA N Female to N Female Adapter from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [RA N Female to N Female Adapter SM4520](#)

URL: <https://www.fairviewmicrowave.com/ra-n-female-n-female-adapter-sm4520-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



| STANDARD TOLERANCES |       |
|---------------------|-------|
| .X                  | ±0.2  |
| .XX                 | ±0.1  |
| .XXX                | ±0.05 |

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

|                                                                             |        |                                                                                                                                                                                     |       |                    |              |
|-----------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------|--------------|
| <b>FAIRVIEW MICROWAVE INC.</b><br>ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM |        | NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br>3. DIMENSIONS ARE IN INCHES [mm]. |       |                    |              |
| TITLE<br>RA N Female to N Female Adapter                                    |        | DWG NO<br>SM4520                                                                                                                                                                    |       | CAGE CODE<br>3FKR5 |              |
| CAD FILE                                                                    | 101116 | SHEET                                                                                                                                                                               | SCALE | N/A                | SIZE A 41742 |